DAMAGE SURVEY REPORT (DSR) Emergency Watershed Protection Program - Recovery

Section 1A	NRCS Entry Only
Date of Report: August 9, 2006	Eligible: YES NO NO NO
DSR Number: 113-05-015R Project Number:	Funding Priority Number (from Section 4) 20 def
Sponsor Name: Prairie Gregg Drainage District	
Address: 801 South Broadway Street	
City/State/Zip: Erath, Louisiana 70533	
Telephone Number:(337) 898-1829	Fax:
Section 1C Site Locati	on Information
County: Vermillion State: Louisian	Congressional District: 7
Latitude: 29.88191 Longitude: 92.13185 Sect	ion: <u>55, 57</u> Township: <u>13S</u> Range: <u>3E</u>
UTM Coordinates:	
Drainage Name: North of Dry Dock	Reach: 2,640 feet
Damage Description: Hurricane Rita deposited trees and hay bales	in channel
Section 1D Site E	valuation
All answers in this Section must be YES in order to be eligible for EWI	Passistance
Site Eligibility	YES NO Remarks
Damage was a result of a natural disaster?*	X
Recovery measures would be for runoff retardation or soil erosion prevention?*	X
Threat to life and/or property?*	X
Event caused a sudden impairment in the watershed?*	X
Imminent threat was created by this event?**	X
For structural repairs, not repaired twice within ten years?**	X
Site Defensibility	
Economic, environmental, and social documentation adequate to warrant action? (Go to pages 3, 4, 5 and 6 ***)	X
Proposed action technically viable? (Go to Page 9 ***)	X
Have all the appropriate steps been taken to ensure that all segments of program and its possible effects? YES X NO Comments:	

^{**} Regulation
*** DSR Pages 3 through 6 and 9 are required to support the decisions recorded on this summary page. If additional space is needed on this or any other page in this form, add appropriate pages.1 of 14

DSR NO: 113-05-015R

Section 1E Proposed Action

Describe the preferred alternative from Findings: Section 5 A:

Remove debris from channel utilizing north side of channel and limited access points to channel. Debris will be piled and burned using disposal site in adjacent pasture.

Total installation cost identified in this DSR: Section 3: \$_____

Section 1F NRCS State Office Review and Approval

Reviewed By:

tate AWP Program Manager

Date Reviewed: 8/31/

Approved By:

State Concervationist

Date Approved

PRIVACY ACT AND PUBLIC BURDEN STATEMENT

NOTE: The following statement is made in accordance with the Privacy Act of 1974, (5 U.S.C. 552a) and the Paperwork Reduction Act of 1995, as amended. The authority for requesting the following information is 7 CFR 624 (EWP) and Section 216 of the Flood Control Act of 1950, Public Law 81-516, 33 U.S.C. 701b-1; and Section 403 of the Agricultural Credit Act of 1978, Public Law 95-334, as amended by Section 382, of the Federal Agriculture Improvement and Reform Act of 1996, Public Law 104-127, 16 U.S.C. 2203. EWP, through local sponsors, provides emergency measures for runoff retardation and erosion control to areas where a sudden impairment of a watershed threatens life or property. The Secretary of Agriculture has delegated the administration of EWP to the Chief or NRCS on state, tribal and private lands.

Signing this form indicates the sponsor concurs and agrees to provide the regional cost-share to implement the EWP recovery measure(s) determined eligible by NRCS under the terms and conditions of the program authority. Failure to provide a signature will result in the applicant being unable to apply for or receive a grant the applicable program authorities. Once signed by the sponsor, this information may not be provided to other agencies. IRS, Department of Justice, or other State or Federal Law Enforcement agencies, and in response to a court or administrative tribunal.

The provisions of criminal and civil fraud statutes, including 18 U.S.C. 286, 287, 371, 641, 651, 1001; 15 U.S.C. 714m; and 31 U.S.C. 3729 may also be applicable to the information provided. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0030. The time required to complete this information collection is estimated to average 117/1.96 minutes/hours per response, including the time for reviewing instructions, searching existing data sources, field reviews, gathering, designing, and maintaining the data needed, and completing and reviewing the collection information.

USDA NONDISCRIMINATION STATEMENT

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.)

Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write USDA, Director of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-941 0 or call (800)795-3272 (voice) or (202)720-6382 (TDD). USDA is an equal opportunity provider and employer.

Civil Rights Statement of Assurance

The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in the Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes: namely, Section 504 or the Rehabilitation Act of 1973, Title IX of the Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR 15, 15a, and 15b), which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age or disability, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

Section 2 Environmental Evaluation

2A Resource	2B Existing Condition	ection 2 Environmental	C Alternatives and Effect	rts
Concerns		Proposed Action	No Action	Alternative
Concerns			Leave debris in	Remove debris from
		Remove debris from		
		one side of channel.	channel	both sides of
		See sec. 1E for		channel
		specific information		
		2	D Effects of Alternative	es
Soil				
Bank Erosion	Stable	Temporary increase in bank erosion from	Increased bank erosion and undercutting due to	Temporary increase in bank erosion from removal
Compaction	None present	removal activities Slight increase in compaction due to heavy equipment at access points	flooding None present	activities on both sides Slight increase in compaction due to heavy equipment at access points on both sides of channel
Water				
Flooding	Property/homes upstream subject to flooding after heavy rainfall event due to blockages	Upstream flooding reduced and property damage minimized from heavy rainfall events	Property/homes subject to continued flooding from heavy rainfall events	Upstream flooding reduced and property damage minimized from heavy rainfall events
Excessive sediments and turbidity	Stream flow reduced, sediment problems will occur with future heavy rainfall, water is turbid from sediment	Disturbance from heavy equipment will cause short term increase in sediment and turbidity, but reduce long term impacts	Sediment and turbidity will continue to increase as a result of stream bank erosion and scour erosion following heavy rainfall	Disturbance from heavy equipment will cause short term increase in sediment and turbidity, but reduce long term impacts
Stream Health (SVAP)	5.6 (poor)	5.7 (poor)	5.6 (poor)	5.7 (poor)
Air				
Particulate Matter	No effect	Slight increase during debris removal and burning	No effect	Slight increase during debris removal and burning
Plant		S		
Productivity, health and vigor of riparian vegetation	Increased flooding/ponding and debris has limited growth	Disturbance of riparian vegetation during removal activities, but overall health and vigor improves by reducing flooding/ponding	Increased flooding/ponding and debris has limited growth	Disturbance of riparian vegetation during removal activities, but overall health and vigor improves by reducing flooding/ponding
Productivity and health of aquatic vegetation	Aquatic plants limited due to turbidity	Removal of debris slightly alter vegetation during activity, overall improvement from reduced turbidity	Stream aquatic growth will remain poor with limited vegetation due to turbidity	Removal of debris slightly alter vegetation during activity, overall improvement from reduced turbidity
Animal				
Inadequate cover/shelter for wildlife along stream corridor	Riparian buffer provides adequate cover and shelter	Slight reduction in cover on working side of channel and at access points but adequate cover will remain	Riparian buffer continues to provide adequate cover	Slight reduction in cover on both sides of channel and at access points
Inadequate cover/shelter for stream fisheries	Debris in channel provides fish cover but also creates barriers to movement	Debris will be removed and result in less in stream cover but adequate cover will remain and overall water quality will improve	Cover and shelter will remain the same, but overall water quality will be the limiting factor	Debris will be removed and result in less in stream cover but adequate cover will remain and overall water quality will improve
Other				
Mosquito and insect vectors	Increased danger of disease due to stagnant water Presence of debris	Lower risk of disease by returning stream flow to pre-storm conditions Minor temporary	Increased danger of disease due to stagnant water Landscape will remain	Lower risk of disease by returning stream flow to pre-storm conditions Minor temporary
Aesthetics	diminishes landscape	disturbance on one side from access of heavy equipment and pile/burn activities	diminished and will degrade with future flood events	disturbance on both sides of the channel from heavy equipment access and pile/burn activities

Section 2E Special Environmental Concerns

Resource	Existing Condition		Alternatives and Effects	<u> </u>
Consideration	8	Proposed Action	No Action	Alternative
Clean Water Act	Moderate water	Improve water quality.	Decreased water	Improved water
Waters of the U.S.	quality, no obvious	CWA permit needed,	quality, increased	quality. CWA permit
The state of the s	contaminants	water quality	blockage and flooding	needed, water quality
		certification needed.		certification needed.
Coastal Zone	N/A	Coastal Use Permit is	N/A	Coastal Use Permit is
Management Areas		required		required
Coral Reefs	N/A	N/A	N/A	N/A
	Use FOTG guidance.	Use FOTG guidance.	Use FOTG guidance.	Use FOTG guidance.
Cultural Resources	State level review	State level review	State level review	State level review
	needed	needed	needed	needed
	Use FOTG guidance.	Use FOTG guidance.	Use FOTG guidance.	Use FOTG guidance.
Endangered and	USFWS/LDWF list	USFWS/LDWF list	USFWS/LDWF list	USFWS/LDWF list
Threatened Species	show species in parish	show species in parish	show species in parish	show species in parish
	but non likely in	but non likely in	but non likely in	but non likely in
Environmental	project area Not a factor in this	project area Not a factor in this	project area Not a factor in this	project area Not a factor in this
Justice Justice	project area.	project area.	project area.	project area.
Essential Fish	Not a factor in this	Not a factor in this	Not a factor in this	Not a factor in this
	project area.	project area.	project area.	project area.
Habitat	No stream	Will coordinate if	N/A	Will coordinate if
TO: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	modification	issues arise in CWA	N/A	issues arise in CWA
Fish and Wildlife	proposed.	404 permit process.		404 permit process.
Coordination	* *		37/4	
	Project is within 100	Improve drainage and reduce level of	N/A	Improve drainage and reduce level of
Floodplain	year flood plain.	flooding to pre-storm		flooding to pre-storm
Management		conditions		conditions
	Chinese tallow in	Chinese tallow may	Chinese tallow in	Chinese tallow may
Invasive Species	adjacent areas	increase in disturbed	adjacent areas	increase in disturbed
invasive species		areas		areas
	Minor habitat present	No impact	Minor habitat present	No impact
Migratory Birds	for neo-tropical		for neo-tropical	
	migrants		migrants	
	Use FOTG guidance,	Use FOTG guidance,	Use FOTG guidance,	Use FOTG guidance,
Natural Areas	no natural areas	no natural areas	no natural areas	no natural areas
	identified	identified	identified	identified
D : 177 :	Prime farmland	Prime farmland soils occur but project will	Prime farmland onsite, Du, Jd	Prime farmland soils occur but project will
Prime and Unique	onsite, Du, Jd	have minor impact on	Du, Ju	have minor impact on
Farmlands		farmland		farmland
	Area impacted by	Riparian area protected	Area impacted by	Riparian area protected
Riparian Areas	flooding and debris	by reduced flooding	flooding and debris	by reduced flooding
Taparian / noas	accumulation		accumulation	
	Stream aesthetics	Stream aesthetics will	Further diminished	Stream aesthetics will
Scenic Beauty	diminished due to	be restored	stream aesthetics from	be restored
	presence of debris and		stagnant water, debris	
	stagnant water	D 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and future floods	D 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Wetland functions and	Removal of debris will	Wetland functions and	Removal of debris will
Wetlands	values altered due to channel obstruction	return stream flow and wetland functions to	values altered due to channel obstruction	return stream flow and wetland functions to
	channel obstruction	pre-storm condition	channel obstruction	pre-storm condition
Wild and Scenic	No impact on listed	No impact on listed	No impact on listed	No impact on listed
Rivers	streams or rivers	streams or rivers	streams or rivers	streams or rivers
MIVEIS	Sacurity of Hivers	Sacurity of Hivers	Sacams of fivers	Sacams of fivers

Completed By: Sarah Haymaker Date: August 10, 2006

Section 2F Economic

This section must be completed by each alternative considered (attach additional sheets as necessary).

	Future Damages (\$)	Damage Factor (%)	Near Term Damage Reduction
Properties Protected (Private)			
1 home x \$59,282	\$59,282	20%	\$11,856.40
1 home x \$39,521	\$39,521	20%	\$7,904.20
4 homes x \$57,816	\$231,265	20%	\$46,253.00
Properties Protected (Public)			
Live Oak Road*			
Business Losses			
Dry Dock Facility**			
Other			
		amage Reduction \$	\$66,013.60
Net Benefit (Total Near Tern	n Damage Reduction minus Co	ost from Section 3)	\$

See attached Real Estate Market Value worksheets.

Completed By:	Sarah Haymaker	Date: Au	gust 10, 2006
1 -			

^{*}Live Oak Road is the only access to the Dry Dock Facility and 14 homes in the area (only 6 structures would suffer property damage from flooding)

^{**}Although the structure will not be damaged, Dry Dock Facility employs 40 persons that would be unable to reach the facility should Live Oak Road flood, economic impact has not been estimated

Section 2G Social Consideration

This section must be completed by each alternative considered (attach additional sheets as necessary).

	YES	NO	Remarks
Has there been a loss of life as a result of		X	
the watershed impairment?			
Is there the potential for loss of life	X		Emergency vehicle access to the area would be restricted during
due to damages from the watershed			flood event.
impairment?			
Has access to a hospital or medical facility		X	
been impaired by watershed impairment?			
Has the community as a whole been	X		Impairment increases flooding impact throughout the community.
adversely impacted by the watershed			If channel floods, property will be inaccessible or suffer restricted
impairment (life and property ceases to			access. Loss of electrical power and communications was
operate in a normal capacity)			experienced.
Is there a lack or has there been a	X		Future events would impact the roadway and access to emergency
reduction of public safety due to watershed			services.
impairment?			

Completed By:	Sarah Haymaker	Date: August 10, 2006	
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Section 2H Group Representation and Disability Information

This section is completed only for the preferred alternative selected.

Group Representation	Census Block	Number	Affected
American Indian/Alaska Native Female Hispanic			
American Indian/Alaska Native Female Non-Hispanic			
American Indian/Alaska Native Male Hispanic			
American Indian/Alaska Native Male Non-Hispanic			
Asian Female Hispanic			
Asian Female Non-Hispanic			
Asian Male Hispanic			
Asian Male Non-Hispanic			
Black or African American Female Hispanic			
Black or African American Female Non-Hispanic	1	2%	1
Black or African American Male Hispanic			
Black or African American Male Non-Hispanic	1	2%	1
Hawaiian Native/Pacific Islander Female Hispanic			
Hawaiian Native/Pacific Islander Female Non-Hispanic			
Hawaiian Native/Pacific Islander Male Hispanic			
Hawaiian Native/Pacific Islander Male Non-Hispanic			
White Female Hispanic			
White Female Non-Hispanic	18	40%	18
White Male Hispanic			
White Male Non-Hispanic	25	56%	25
Total Group	45	100%	45

NOTE: This demographic data was taken from 2000 U.S. Census. See the attached tables for details. The data indicates there are 45 persons in 14 homes. All persons will be affected in these census blocks due to limited access.

Census tract(s) _	Tract 9510, Blocks 6079, 6083, and 6084			
Completed By:	Sarah Haymaker	Date:	August 10, 2006	

Section 2I. Required consultation or coordination between the lead agency and/or the RFO and another governmental unit including tribes:

Easements, permissions, or permits:

Access to channel from private properties will require easements/permissions to be obtained by sponsor. Recommend consultation of contractor for right of way access to channel to accommodate equipment being used. Coordination will be handled by NRCS representative to reduce amount of impact to surrounding environment.

Army Corps of Engineers 404 permit CWA and Water Quality Certification may be required

Mitigation Description:

Access to remove and spread debris from North of Dry Dock Facility will be from one side and at limited entry points to minimize impacts and reduce disturbances. This alternative will prevent impacts to both sides and minimize riparian disturbance. Proposed action will help restore hydraulic function to downstream wetlands and reduce mosquito breeding areas and vector problems in adjacent floodplains. Action will be completed without interruption to reduce impacts to stream fisheries, wildlife and local residents.

Agencies, persons, and references consulted, or to be consulted:

Army Corps of Engineers, New Orleans District Louisiana Department of Environmental Quality Louisiana Department of Wildlife and Fisheries Louisiana Department of Natural Resources Vermillion Parish Government

Section 4 NRCS EWP Funding Priority

Complete the following section to compute the funding priority for the recovery measures in this application (see instructions on page 10).

Priority Ranking Criteria	Yes	No		Ranking Number
				Plus Modifier
1. Is this an exigency situation?				
2. Is this a site where there is serious, but not immediate threat to human life?	X			2-c,d,e,f
3. Is this a site where buildings, utilities, or other important infrastructure				
components are threatened?				
4. Is this site a funding priority established by the NRCS Chief?				
The following are modifiers for the above criteria			Modifier	
a. Will the proposed action or alternatives protect or conserve federally-listed			No	
threatened and endangered species or critical habitat?				
b. Will the proposed action or alternatives protect or conserve cultural sites			No	
listed on the National Register of Historic Places?				
c. Will the proposed action or alternatives protect or conserve prime or			Yes	
important farmland?				
d. Will the proposed action or alternatives protect or conserve existing			Yes	
wetlands?				
e. Will the proposed action or alternatives maintain or improve current water			Yes	
quality conditions?				
f. Will the proposed action or alternatives protect or conserve unique habitat,			Yes	
including but not limited to, areas inhabited by State-listed species, fish and				
wildlife management area, or State identified sensitive habitats?				

Enter priority computation in Section 1A, NRCS Entry, Funding priority number.

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DSR NO: 113-05-015R

Section 5A Findings

Finding: Indicate the preferred alternative from Section 2 (Enter to Section 1E):

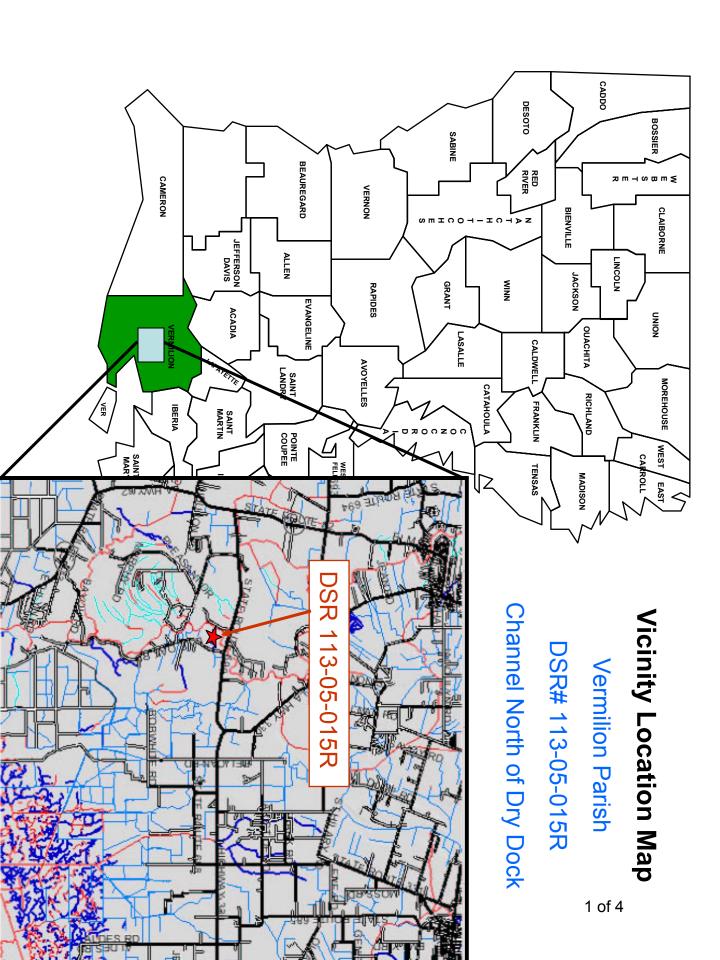
B. Site Plan or SketchesC. Other (explain)

The proposed action is the preferred alternative. The proposed action is the least costly alternative that achieves the restoration objectives, maximizes environmental benefits and is socially acceptable.

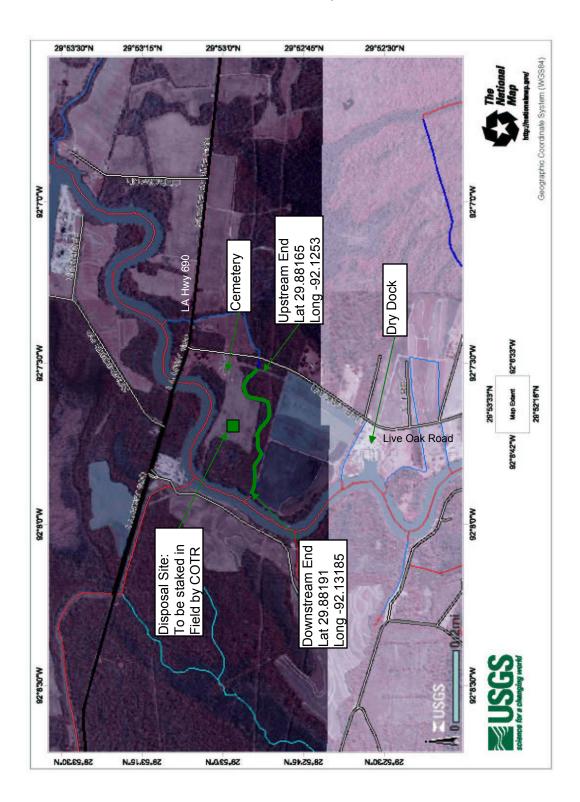
The proposed action is to remove debris from the channel utilizing north side of channel and limited access points to channel. Debris will be piled and burned using disposal site in adjacent pasture.

I have considered the effects of the action and the alternatives on the Environmental Economic, Social; the Special Environmental Concerns; and the extraordinary circumstances (40 CFR 1508.27). I find for the reasons stated below, that the preferred alternative:

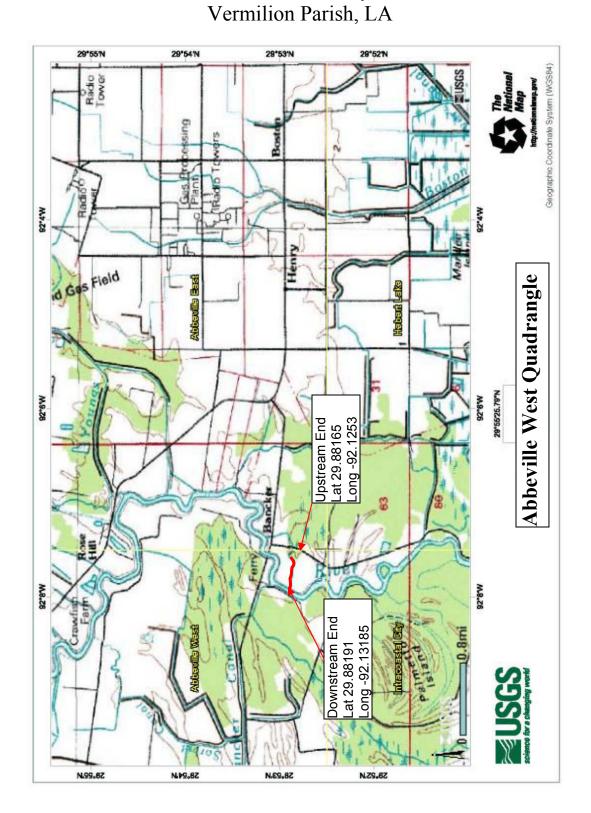
X Has been sufficiently analyzed in the Chapter 5.2.2.1.2 Chapter	EWP PEIS (reference all that apply)
May require the preparation of an env The action will be referred to the NRCS Sta	vironmental assessment or environmental impact statement. ate Office on this date:
NRCS representative of the DSR team	DM -
Title: D.C.	Date:8-29-06
Section 5B Comments: Section 5C	Sponsor Concurrence: Emile Athabacemed
Sponsor Representative Title: Presellen Section 6 Attachments: A. Location Map	Date: 8/29/06



SITE MAP DSR 113-05-015R Channel: North of Dry Dock Vermilion Parish, LA



TOPO MAP DSR 113-05-015R Channel: North of Dry Dock

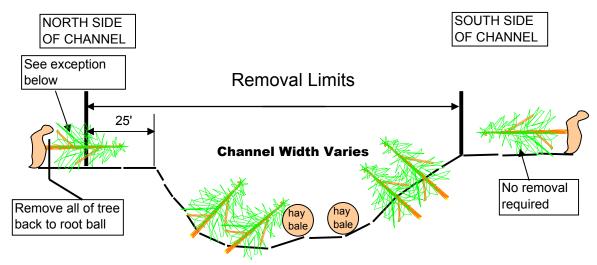


DSR 113-05-015R

Channel North of Dry Dock

Vermilion Parish / Prairie Gregg Drainage District

Debris Removal



Typical Section Not to Scale

Notice: 96 Hours Before Digging Call 1-800-272-3020

*Note: Access and work from north side only, except in locations where structures do not permit as concurred in by the COTR

Exception it may be possible that trees which were located outside of the the removal limits may have fallen into the removal limits, the entire tree will be removed back to the root ball even if only a portion of the tree is withinthe removal limits

DSR 113-05-015R Channel North of Dry Dock Vermilion Parish – Prairie Gregg Drainage District

CONSTRUCTION SPECIFICATIONS

NUMBER	TITLE	PAGE	THROUGH
5	Pollution Control	5-1	5-4
6	Seeding, Sprigging and Mulching	6-1	6-5
8	Mobilization and Demobilization	8-1	8-2
9	Traffic Control	9-1	9-4
203	Channel Obstruction Removal	203-1	203-5
DRAWINGS		1 of 4	4 of 4
SPECIAL P	PROVISIONS	1 of 1	1 of 1

SPECIAL PROVISIONS

- 1. Not all pipelines and other utilities are shown on the plans. It is the responsibility of the contractor to contact **Louisiana One Call at 1-800-272-3020** and the appropriate owner of any utility within the work area to assist him/her in the location of unmarked utilities prior to the start of his/her work.
- 2. When performing work in the vicinity of utilities and/or other structures the contractor shall take extreme care not to damage said utilities and/or structures. Any damages resulting from improper construction will be the responsibility of the contractor, and repairs of such damages will be made by the contractor at his/her expense. The contractor shall further restore at his/her own expense all injured property caused by any negligent act of omission or commission on his/ her part or on the part of his/her agent, including sidewalks, curbing, sodding, shrubs, pipes, conduits, sewers, buildings, fences, property boundary markers, bridges, retaining walls, tanks, power lines, levees or any other building or private property to a condition as good as it was when he/she entered upon the right of way.
- 3. The convenience of the general public and of residents along the work shall be provided for in a reasonably adequate and satisfactory manner. Where existing roads are not available for use as detours, all traffic shall be permitted to pass through the work. In such cases the vehicles of the traveling public shall have precedence over the contractor's vehicles to the end that the traveling public's vehicles shall not be unduly delayed for the convenience of the contractor. The contractor shall provide and station competent flagmen whose sole duties shall consist of directing and controlling the movement of public traffic either through or around the work. A flagman shall also be stationed wherever equipment, trucks, etc., enter or leave a thoroughfare from the construction area. The design and application of all signals, pavement markings, channelizing devices and warning sign shall conform the "Louisiana Manual on Uniform Traffic Control Devices", 1988 edition, as revised.
- 4. The contractor shall arrange his/her work so that no undue or prolonged blocking of business establishments or private residences will occur. Material and equipment stored on the right of way and project site shall be so placed, and the work at all times shall be so conducted, as to insure minimum danger and obstruction to the traveling public.
- 5. When transporting equipment, supplies, and material to and from the construction site, the contractor shall take the most direct route when leaving a major thoroughfare.
- 6. Fire hydrants shall be accessible at all times to the Fire Department. No materials or other obstructions shall be placed closer to a fire hydrant than permitted by ordinances, rules or regulations. In the absence of such ordinances, rules or regulations, obstructions shall not be placed within fifteen (15) feet of a fire hydrant.
- 7. Material Certifications shall be provided to the Government Representative for all materials used in this contract prior to installation.
- 8. The Estimated Quantities shown on the drawings are based on quantities derived from preliminary survey data. Variations in these quantities may be possible when the work is actually performed. However, modification to the contract will not be made for work performed in excess of these Estimated Quantities

NRCS, LA - EWP S.P.-1 2/20/06

Construction Specification 5—Pollution Control

1. Scope

The work consists of installing measures or performing work to control erosion and minimize the production of sediment and other pollutants to water and air from construction activities.

2. Material

All material furnished shall meet the requirements of the material specifications listed in section 8 of this specification.

3. Erosion and sediment control measures and works

The measures and works shall include, but are not limited to, the following:

Staging of earthwork activities—The excavation and moving of soil materials shall be scheduled to minimize the size of areas disturbed and unprotected from erosion for the shortest reasonable time.

Seeding—Seeding to protect disturbed areas shall occur as soon as reasonably possible following completion of that earthwork activity.

Mulching—Mulching to provide temporary protection of the soil surface from erosion.

Diversions—Diversions to divert water from work areas and to collect water from work areas for treatment and safe disposition. They are temporary and shall be removed and the area restored to its near original condition when the diversions are no longer required or when permanent measures are installed.

Stream crossings—Culverts or bridges where equipment must cross streams. They are temporary and shall be removed and the area restored to its near original condition when the crossings are no longer required or when permanent measures are installed.

Sediment basins—Sediment basins collect, settle, and eliminate sediment from eroding areas from impacting properties and streams below the construction site(s). These basins are temporary and shall be removed and the area restored to its original condition when they are no longer required or when permanent measures are installed.

Sediment filters—Straw bale filters or geotextile sediment fences trap sediment from areas of limited runoff. Sediment filters shall be properly anchored to prevent erosion under or around them. These filters are temporary and shall be removed and the area restored to its original condition when they are no longer required or when permanent measures are installed.

Waterways—Waterways for the safe disposal of runoff from fields, diversions, and other structures or measures. These works are temporary and shall be removed and the area restored to its original condition when they are no longer required or when permanent measures are installed.

Other—Additional protection measures as specified in section 8 of this specification or required

by Federal, State, or local government.

4. Chemical pollution

The contractor shall provide watertight tanks or barrels or construct a sump sealed with plastic sheets to dispose of chemical pollutants, such as drained lubricating or transmission fluids, grease, soaps, concrete mixer washwater, or asphalt, produced as a by-product of the construction activities. At the completion of the construction work, sumps shall be removed and the area restored to its original condition as specified in section 8 of this specification. Sump removal shall be conducted without causing pollution.

Sanitary facilities, such as chemical toilets, or septic tanks shall not be located next to live streams, wells, or springs. They shall be located at a distance sufficient to prevent contamination of any water source. At the completion of construction activities, facilities shall be disposed of without causing pollution as specified in section 8 of this specification.

5. Air pollution

The burning of brush or slash and the disposal of other materials shall adhere to state and local regulations.

Fire prevention measures shall be taken to prevent the start or spreading of wildfires that may result from project activities. Firebreaks or guards shall be constructed and maintained at locations shown on the drawings.

All public access or haul roads used by the contractor during construction of the project shall be sprinkled or otherwise treated to fully suppress dust. All dust control methods shall ensure safe construction operations at all times. If chemical dust suppressants are applied, the material shall be a commercially available product specifically designed for dust suppression and the application shall follow manufacturer's requirements and recommendations. A copy of the product data sheet and manufacturer's recommended application procedures shall be provided to the engineer 5 working days before the first application.

6. Maintenance, removal, and restoration

All pollution control measures and temporary works shall be adequately maintained in a functional condition for the duration of the construction period. All temporary measures shall be removed and the site restored to near original condition.

7. Measurement and payment

Method 1—For items of work for which specific unit prices are established in the contract, each item is measured to the nearest unit applicable. Payment for each item is made at the contract unit price for that item. For water or chemical suppressant items used for dust control for which items of work are established in section 8 of this specification, measurement for payment will not include water or chemical suppressants that are used inappropriately or excessive to need. Such payment will constitute full compensation for the completion of the work.

Method 2—For items of work for which lump sum prices are established in the contract, payment is made as the work proceeds and supported by invoices presented by the contractor that reflect actual costs. If the total of all progress payments is less than the lump sum contract price for this item, the balance remaining for this item will be included in the final contract payment. Payment of the lump sum contract price will constitute full compensation for completion of the

work.

Method 3—For items of work for which lump sum prices are established in the contract, payment will be prorated and provided in equal amounts on each monthly progress payment estimate. The number of months used for prorating shall be the number estimated to complete the work as outlined in the contractor's approved construction schedule. The final month's prorate amount will be provided with the final contract payment. Payment as described will constitute full compensation for completion of the work.

All Methods—The following provisions apply to all methods of measurement and payment. Compensation for any item of work described in the contract, but not listed in the bid schedule is included in the payment for the item of work to which it is made subsidiary. Such items, and the items to which they are made subsidiary, are identified in section 8 of this specification.

8. Items of work and construction details

(See next page.)

8. Items of work and construction details

Items of work to be performed in conformance with this specification and the construction details therefor are:

- a. Subsidiary Item, Pollution Control
 - (1) This item shall consist of all work necessary to control erosion and sediment pollution, chemical pollution, water pollution and air pollution during the period of this contract.
 - (2) The Contractor shall perform the work in a manner that will reduce erosion, minimize sediments and other pollutants to the water and streams and create a minimum of air pollution consistent with standard construction operations.
 - (3) The contractor shall perform work in such a manner that all Local, State and Federal regulations regarding pollution (i.e. air, water, etc.) are adhered to.
 - (4) No separate payment will be made for this item. Compensation for this subsidiary item shall be included in Specification 203, Channel Obstruction Removal.

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Construction Specification 6—Seeding, Sprigging, and Mulching

1. Scope

The work consists of preparing the area for treatment; furnishing and placing seed, sprigs, mulch, fertilizer, inoculant, lime, and other soil amendments; and anchoring mulch in designated areas as specified.

2. Material

Seed—All seed shall conform to the current rules and regulations of the state where it is being used and shall be from the latest crop available. It shall meet or exceed the standard for purity and germination listed in section 7.

Seed shall be labeled in accordance with the state laws and the U.S. Department of Agriculture rules and regulations under the Federal Seed Act in effect on the date of invitations for bids. Bag tag figures are evidence of purity and germination. No seed will be accepted with a test date of more than 9 months before the delivery date to the site.

Seed that has become wet, moldy, or otherwise damaged in transit or storage will not be accepted. The percent of noxious weed seed allowable shall be as defined in the current State laws relating to agricultural seeds. Each type of seed shall be delivered in separate sealed containers and fully tagged unless exception is granted in writing by the contracting officer.

Fertilizer—Unless otherwise specified, the fertilizer shall be a commercial grade fertilizer. It shall meet the standard for grade and quality specified by State law. Where fertilizer is furnished from bulk storage, the contractor shall furnish a supplier's certification of analysis and weight. When required by the contract, a representative sample of the fertilizer shall be furnished to the contracting officer for chemical analysis.

Inoculants—The inoculant for treating legume seeds shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species and shall not be used later than the date indicated on the container or as otherwise specified. A mixing medium, as recommended by the manufacturer, shall be used to bond the inoculant to the seed. Two times the amount of the inoculant recommended by the manufacturer shall be used except four times the amount shall be used when seed is applied using a hydraulic seeder. Seed shall be sown within 24 hours of treatment and shall not remain in the hydraulic seeder longer than 4 hours.

Lime and other soil amendments—Lime shall consist of standard ground agriculture limestone, or approved equivalent. Standard ground agriculture limestone is defined as ground limestone meeting current requirements of the State Department of Agriculture. Other soil amendments shall meet quality criteria and application requirements specified in section 7.

Mulch tackifiers—Asphalt emulsion tackifiers shall conform to the requirements of ASTM D 977, Specification for Emulsified Asphalt. The emulsified asphalt may be rapid setting, medium setting, or slow setting. Nonasphaltic tackifiers required because of environmental considerations shall be as specified in section 7.

Straw mulch material—Straw mulch shall consist of wheat, barley, oat or rye straw, hay, grass cut from native grasses, or other plants as specified in section 7. The mulch material shall be air-

dry, reasonably light in color, and shall not be musty, moldy, caked, or otherwise of low quality. The use of mulch that contains noxious weeds is not permitted. The contractor shall provide a method satisfactory to the contracting officer for determining weight of mulch furnished.

Other mulch materials—Mulching materials, such as wood cellulose fiber mulch, mulch tackifiers, synthetic fiber mulch, netting, and mesh, are other mulching materials that may be required for specialized locations and conditions. These materials, when specified, must be accompanied by the manufacturer's recommendations for methods of application.

3. Seeding mixtures, sod, sprigs, and dates of planting

The application rate per acre for seed mixtures, sprigs, or sod and date of seeding or planting shall be as shown on the plans or as specified in section 7.

4. Seedbed preparation and treatment

Areas to be treated shall be dressed to a smooth, firm surface. On sites where equipment can operate on slopes safely, the seedbed shall be adequately loosened (4 to 6 inches deep) and smoothed. Depending on soil and moisture conditions, disking or cultipacking, or both, may be necessary to properly prepare a seedbed. Where equipment cannot operate safely, the seedbed shall be prepared by hand methods by scarifying to provide a roughened soil surface so that broadcast seed will remain in place.

If seeding is to be accomplished immediately following construction operations, seedbed preparation may not be required except on a compacted, polished, or freshly cut soil surface.

Rocks larger than 6 inches in diameter, trash, weeds, and other debris that will interfere with seeding or maintenance operations shall be removed or disposed of as specified in section 7.

Seedbed preparation shall be discontinued when soil moisture conditions are not suitable for the preparation of a satisfactory seedbed as determined by the contracting officer's technical representative (COTR).

5. Seeding, sprigging, fertilizing, mulching, and stabilizing

All seeding or sprigging operations shall be performed in such a manner that the seed or sprigs are applied in the specified quantities uniformly in the designated areas. The method and rate of seed application shall be as specified in section 7. Unless otherwise specified, seeding or sprigging shall be accomplished within 2 days after final grading is completed and approved.

Fertilizer, lime, and other soil amendments shall be applied as specified in section 7. When specified, the fertilizer and soil amendments shall be thoroughly incorporated into the soil immediately following surface application.

The rate, amount, and kind of mulching or mesh shall be as specified in section 7. Mulches shall be applied uniformly to the designated areas. They shall be applied to areas seeded not later than 2 working days after seeding has been performed. Straw mulch material shall be stabilized within 24 hours of application using a mulch crimper or equivalent anchoring tool or by a suitable tackifier. When the mulch crimper or equivalent anchoring tool is used, it shall have straight blades and be the type manufactured expressly for and capable of firmly punching the mulch into the soil. Where the equipment can be safely operated, it shall be operated on the contour. Hand methods shall be used where equipment cannot safely operate to perform the work required.

The tackifier shall be applied uniformly over the mulch material at the specified rate, or it shall be injected into the mulch material as it is being applied. Mesh or netting stabilizing materials shall be applied smoothly, but loosely on the designated areas. The edges of these materials shall be buried or securely anchored using spikes or staples as specified in section 7.

The contractor shall maintain the mesh or netting areas until all work under the contract has been completed and accepted. Maintenance shall consist of the repair of areas damaged by water erosion, wind, fire, or other causes. Such areas shall be repaired to reestablish the intended condition and to the design lines and grades required by the contract. The areas shall be refertilized, reseeded, and remulched before the new application of the mesh or netting.

6. Measurement and payment

Method 1—For items of work for which specific unit prices are established in the contract, each area treated is measured as specified in section 7 and the area calculated to the nearest 0.1 acre. Payment for treatment is made at the contract unit price for the designated treatment, which will constitute full compensation for completion of the work.

When specified as an item of work, mesh or netting is measured to the nearest square yard of surface area covered and accepted. Payment is made at the contract unit price and will constitute full compensation for completion of the work.

Method 2—For items of work for which specific lump sum prices are established in the contract, the quantity of work will not be measured for payment. Payment for this item is made at the contract lump sum price for the item and will constitute full compensation for the completion of the work.

Method 3—For items of work for which lump sum prices are established in the contract, payment is made as the work proceeds. Progress payments will be determined as specified in section 7. Payment of the lump sum contract price will constitute full compensation for completion of the work.

All Methods—The following provisions apply to all methods of measurement and payment. Compensation for any item of work described in the contract, but not listed in the bid schedule is included in the payment for the item of work to which it is made subsidiary. Such items and the item(s) to which they are made subsidiary are identified in section 7.

7. Items of work and construction details

(See next sheet)

7. Items of work and construction details

Items of work to be performed in conformance with this specification and the construction details therefor are:

Subsidiary Item, Permanent Vegetation Seeding, Fertilization and Mulching

a. Permanent Vegetation Seeding

- (1) This item will consist of furnishing and applying seed according to the following specifications:
- (2) Seeding for permanent cover will be done on all bare areas such as channel slopes, berms, spoil placement areas and any other distrubed areas. Fertilizer and seed will not be applied to areas with perennial ponded water.
- (3) No seedbed preparation will be required if the construction equipment has produced a scarified surface and the seeding is done the day the areas to be seeded are worked. If the construction equipment has produced a slick surface, or seeding is not done the day the areas are worked, a seedbed will be prepared by scarifying the soil surface with a spike-tooth harrow or similar implement to a depth of one (1) inch. When more than one species of vegetation is required, each species shall be seeded separately. Permanent vegetation seeding will be applied at the following rates:

Seeding Period	Species	Minimum % pure Live Seed	Pure Live Seed (lb./ac)
Mar 1 - Aug 31	Common Bermuda-grass (hulled)	83	45
Sep 1 - Dec 31	Tall Fescue	80	35
Jan 1 - Feb 28	Common Bermuda- grass(unhulled) and	80	20
	Common Bermuda-grass (hulled) and	83	20
	Rye Grass	82	25

b. Fertilization

- (1) This item will consist of furnishing and applying fertilizer to all areas to be seeded according to the following specifications:
- (2) Fertilizer will be a 1-1-1 ratio of N, P, and K, and will contain at least 13 lbs. of each per 100 lbs. of material.

Fertilizer rate (14 lbs. per 1000 sq ft) (13-13-13 basis) or (600 lbs. per acre)

- (1) One application of fertilizer will be applied at the time of planting as directed by the Government Representative.
- c. Mulching
 - (1) No mulching will be required on this contract.
- d. No separate payment will be made for this item. Compensation for this subsidiary item shall be included in Specification 203, Channel Obstruction Removal.

Construction Specification 8—Mobilization and Demobilization

1. Scope

The work consists of the mobilization and demobilization of the contractor's forces and equipment necessary for performing the work required under the contract. It does not include mobilization and demobilization for specific items of work for which payment is provided elsewhere in the contract. Mobilization will not be considered as work in fulfilling the contract requirements for commencement of work.

2. Equipment and material

Mobilization shall include all activities and associated costs for transportation of contractor's personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the contractor's operations at the site; premiums paid for performance and payment bonds including coinsurance and reinsurance agreements as applicable; and other items specified in section 4 of this specification.

Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not required or included in the contract from the site; including the disassembly, removal, and site cleanup of offices, buildings, and other facilities assembled on the site specifically for this contract.

This work includes mobilization and demobilization required by the contract at the time of award. If additional mobilization and demobilization activities and costs are required during the performance of the contract as a result of changed, deleted, or added items of work for which the contractor is entitled to an adjustment in contract price, compensation for such costs will be included in the price adjustment for the item or items of work changed or added.

3. Payment

Payment will be made as the work proceeds, after presentation of paid invoices or documentation of direct costs by the contractor showing specific mobilization and demobilization costs and supporting evidence of the charges of suppliers, subcontractors, and others. When the total of such payments is less than the lump sum contract price, the balance remaining will be included in the final contract payment. Payment of the lump sum contract price for mobilization and demobilization will constitute full compensation for completion of the work.

Payment will not be made under this item for the purchase costs of materials having a residual value, the purchase costs of materials to be incorporated in the project, or the purchase costs of operating supplies.

4. Items of work and construction details

(See next page.)

4. Items of work and construction details

Items of work to be performed in conformance with this specification and the construction details therefor are:

- a. Subsidiary Item, Mobilization and Demobilization
 - (1) This item shall consist of mobilizing and demobilizing personnel and equipment in preparation to perform the work within the scope of this contract.
 - (2) This item shall not include transportation of personnel, equipment and operating supplies between and within the work limit areas of this Contract.
 - (3) Fences, which must be cut or removed for access, shall be repaired or replaced by the Contractor at his/her expense to equal or exceed the quality of fencing that was in place prior to cutting or removal.
 - (4) Access shall be as shown on the drawings. If alternate routes are obtained by the Contractor, they must be approved by the NRCS prior to use. All access routes shall be restored, by the Contractor, to a condition equal to or better than the condition prior to the commencement of work under this contract.
 - (5) No separate payment will be made for this item. Compensation for this subsidiary item shall be included in Specification 203, Channel Obstruction Removal.

Construction Specification 9—Traffic Control

1. Scope

The work shall consist of establishing traffic control and maintaining safe, convenient use of public roads and rights-of-way.

2. Traffic and access

The contractor's operations shall cause no unnecessary inconvenience to the public. The public rights-of-way shall be maintained at all times unless interruption is authorized by proper local authority. Contractor's authorized closing or detour plans shall be provided to the engineer for approval.

Safe and adequate access shall be provided and maintained to all public protection devices and to all critical utility control locations. Facility access shall be continuous and unobstructed unless otherwise approved.

3. Storage of equipment and material in public streets

Construction materials and equipment shall not be stored or parked on public streets, roads, or highways. During any material or equipment loading or unloading activities that may temporarily interfere with traffic, an acceptable detour shall be provided for the duration of the activity. Any associated expense for this activity is the responsibility of the contractor.

Excavated material, including suitable material that is intended for adjacent trench backfill or other earth backfill as specified in section 5 of this specification, shall not be stored on public streets, roads, or highways that remain in service for the public. Any waiver of this requirement must be obtained from the proper local authority and approved by the engineer. All excess and unsuitable material shall be removed from the site as soon as possible. Any spillage shall be removed from roadways before they are used by the public.

4. Street closures, detours, and barricades

The contractor shall comply with the requirements of all applicable responsible units of government for closure of any street, road, or highway. The contractor shall provide the required barriers, guards, lights, signs, temporary bridges, and flaggers together with informing the public of any detours and construction hazards by the most suitable means available, such as local newspapers or radio stations. The contractor is also responsible for compliance with additional public safety requirements that may arise during construction. The contractor shall furnish, install, and, upon completion of the work, promptly remove all signs, warning devices, and other materials used in the performance of this work.

Unless otherwise specified, the contractor shall notify, in writing, the fire chief, police chief, county sheriff, state patrol, schools that operate school buses, or any other government official as may be appropriate no less than 7 days before closing, partly closing, or reopening any street, road, or highway.

Unless otherwise specified, the contractor shall furnish to the engineer a written plan showing the proposed method of signing, barricading for traffic control, and safety for street detours and closures.

All temporary detours will be maintained to ensure use of public rights-of-way is provided in a safe manner. This may include dust control, grading, and graveling as required in section 7 of this specification.

5. General and specific references

All signs, signals, barricades, use of flaggers, and other traffic control and public safety devices shall conform to the general requirements set forth in the Manual of Uniform Traffic Control Devices (MUTCD) and the latest edition of *Standard Highway Signs and Standard Alphabets for Highway Signs* and/or OSHA *Construction Industry Standards (29 CFR Part 1926), Subpart G, Signs, Signals, and Barricades* unless otherwise specified in section 7 of this specification.

6. Measurement and payment

For items of work for which specific lump sum prices are established in the contract, payment for the work is made at the contract lump sum price. Progress payments will be made based upon the percentage of estimated total time that traffic control will be required unless otherwise specified in section 7 of this specification. Payment will constitute full compensation for all flaggers, labor, materials, equipment, and all other items necessary and incidental to completion of the work.

Compensation for any item of work described in the contract, but not listed in the bid schedule will be included in the payment for the item of work to which it is made subsidiary. Such items and items to which they are made subsidiary are identified in section 7 of this specification.

7. Items of work and construction details

(See next page.)

7. Items of Work

Items of work to be performed in conformance with this specification are:

- a. Subsidiary Item, Traffic Control
 - (1) This item shall consist of providing the necessary traffic control devices (signs, signals, markings, personnel, etc.) where needed, to allow for the safe and expeditious movement of traffic through and adjacent to the construction area for the completion of this contract.
 - (2) The contractor, shall have a comprehensive traffic control plan. The plan shall address, as a minimum, the following requirements:
 - (a) The design and application of all signals, pavement markings, channelizing devices, and warning signs shall conform to the "Louisiana Manual on Uniform Traffic Control Devices", 1988 Edition, as revised.
 - (b) Channelizing and delineation devices shall be used to mark all construction areas. These shall be Type II and/or Type III barricades, and/or barrels, all fully reflectional with lights, and weighted with sandbags.
 - (c) Any traffic control devices (signs, signals, markings) which exist as part of the normal pre-construction scheme, and that do not apply to an appropriate situation, or are in the way of construction, shall be covered, removed, or relocated by the contractor.
 - (d) The roadway and all traffic control devices shall be restored to original conditions by the contractor.
 - (e) All excavations shall be covered, backfilled, or protected, (see "b", above) at night and when work is not in progress. Excavated pits, etc., shall be fully fenced or barricaded (see "b", above) to prevent access by pedestrians.
 - (f) All materials/machines shall be stored outside of the road surface, creating no sight distance problems, and fully delineated as in "b", above.
 - (g) If sections of roadway are totally closed, the contractor shall notify the sheriff's traffic division, 911 operators, the fire department, and any major traffic generators (i.e. schools, etc.). A three working day, minimum, advance notice will be required.
 - (h) On totally closed sections of the roadway, the contractor shall provide access for local traffic only.
 - (i) The contractor shall check traffic control devices on a daily basis as a minimum when beginning and ending the work day, to insure adherence to the plans and proper adequacy of devices for day and night visibility. On weekends, devices shall be checked a minimum once per day.
 - (j) Flagman and/or sheriff's control shall be provided as specified by the COTR.

- (k) Yellow, high visibility pennant barrier flagging (nylon rope with plastic pennants) shall be strung between Type II barricades and barrels/drums, only as directed by the COTR.
- (1) This traffic control device plan indicates general traffic control devices to be used on this project. It is anticipated that conditions will vary depending on the phase under construction and that the arrangement of those devices will be reviewed on a daily basis. Should the contractor have any question as to the arrangement of those devices, the COTR shall be notified to make an inspection of the site.
- (m) Contractor shall provide for the movement of pedestrians for the entire length of the contract. As much as possible, the contractor shall not obstruct existing sidewalks, thereby obstructing pedestrian movements. If existing sidewalks must be obstructed, the contractor shall provide for the movement of pedestrians by posting appropriate signing, such as, "Sidewalk Closed-Use Other Side of Street". Signing shall be reflectorized and lighted at night.
- (n) Also, where trenches are excavated outside the roadway surface, the contractor shall provide each dwelling at least one accessible crossing of the backfilled trench area, for use by pedestrians.
- (o) As much as possible, the contractor shall provide access to area businesses.
- (3) No separate payment will be made for this item. Compensation for this subsidiary item shall be included in Specification 203, Channel Obstruction Removal.

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Construction Specification 203—Channel Obstruction Removal

1. Scope

The work shall consist of the cleanup of designated channel areas consisting of the removal and disposal of trees, logs, stumps, brush, tops, rubbish, debris and other items as specified in Section 8 deposited in the channel.

2. Access

Access shall be designated by NRCS unless alternate routes are obtained by the Contractor and approved by NRCS. Some limited mechanized land clearing may be required for alternate access routes. All access routes shall be restored, by the Contractor, to the condition prior to the commencement of work under this contract.

3. Limits of Work

Each end of each reach of the channel and its tributaries designated for obstruction removal will be referenced to identified roads or other structures or landmarks or be marked by the Government Representative by means of stakes, flags, or other suitable markers.

4. Removal

Flow obstructions shall be removed by methods including, but not limited to, sawing, cabling, winching, lifting, or dragging. No excavation for floatation or any other reasons will be allowed.

The following guidelines will be used to determine which trees, stumps, and brush to remove. The final determination will be made by the Government Representative.

- a. All downed trees, brush, limbs, tops, vines, and other washed-in woody vegetative materials lying completely or partially within the stream banks shall be removed.
- b. Undermined or storm damaged trees within or outside the banks which are still standing but likely to fall into the stream shall be removed.
- c. Stumps of downed trees within the channel banks shall not be removed unless otherwise noted in Section 8 of this specification.

All building materials, manufactured items, and other loose foreign debris lying completely or partially within the limits of designated areas.

5. Disposal

All material produced from "Channel Obstruction Removal", shall be hauled to the nearest public landfill or disposed of as specified in Section 8 of this specification.

Sediment removed from the watercourses shall be placed and spread as specified in Section 8. No sediment shall be placed on improved property except where directed or allowed by NRCS to fill stump holes, ruts, and other local depressions. Alternate methods of disposal proposed by the Contractor must be approved by NRCS.

Temporary or permanent placement of logs/debris into tributaries, side ditches, floodplains or other defined water entrances to the watercourse being cleaned will not be allowed for any reason. Should the contractor need to cross such water entrances as part of his/her debris

NRCS – 6/06 Louisiana removal operation then the contractor shall bridge such watercourses using temporary bridging materials, such as equipment mats, which will not obstruct the flow of the side drains. Should the contractor need to cross the watercourse being cleaned, the same crossing methods shall be utilized.

6. Special Requirements

Roadways constructed in the work areas shall be kept to the minimum necessary. No grading for equipment to work or benching of the channel sides will be permitted without the concurrence of NRCS.

All saw cuts shall be made parallel to and as close to ground level as the cutting tools will permit, but no higher than 6" – 10" above the ground.

The Contractor shall take reasonable precautions to prevent further damage to the channel and its environment to include channel banks, fishery resources, and undamaged trees. The Contractor shall provide tanks or barrels to be used for off-site disposal of chemical pollutants such as drained lubricating or transmission oils, greases, etc. produced as a by product of this work. Washing, fueling, or servicing of equipment shall be avoided where spillage or wash water can enter the watercourse.

The Contractor shall not operate heavy equipment such as crawler tractors and tracked backhoes within flowing channels. Any operation of heavy equipment within the banks of the watercourse must be approved by NRCS.

The number of channel crossings shall be kept to a minimum. Materials used to form channel crossings shall be removed once the work for the subject reach is completed.

The Contractor shall backfill holes in the channels and channel banks resulting from stump removal **in residential and other landscaped areas.** Backfill shall be the best fill material available from within within fifty (50) feet of the stump hole (excluding the channel). Upon occasion, spoil may not be available. In such cases, suitable fill material as concurred in by the COTR shall be hauled into the site to fill the stump holes. In residential or other landscaped areas, the fill used to backfill the stump holes shall be topsoil. All track or wheel ruts created as a result of the debris removal operations shall be removed by dressing the area or by backfilling as prescribed above for stump holes.

All track or wheel ruts created as a result of the debris removal operations within the removal limits along the channel, access routes, and disposal sites shall be removed by dressing the area or by backfilling as prescribed above for stump holes. Upon completion of dressing operations all these areas shall be seeded in accordance with Specification 6.

Fences which must be cut or removed for access shall be repaired or replaced by the Contractor at his expense to equal or exceed the quality of fencing that was in place prior to cutting or removal.

The Contractor shall take all reasonable precautions to prevent further damage to structures, utilities, or other fixed improvements and shall promptly repair or replace at his expense any such improvements damaged by his operations.

The Contractor shall coordinate with the appropriate road department, the methods and manners of traffic control.

7. Measurement and payment

Payment will be made on a lump sum basis. Such payment shall be considered full compensation for all materials, labor, equipment, tools, seeding and other items necessary and incidental to complete the work.

8. Items of work and construction details

Items of work to be performed in conformance with this specification and the construction details therefore are:

- a. Bid Item 1, Channel Obstruction Removal
- 1) This item shall consist of the removal and disposal of all obstructions caused by Hurricane Katrina and/or Rita and those major obstructions which could cause upstream flooding from within the specified limits shown on the drawing or as staked in the field.
- 2) No dozers larger than D-4, or equivalent, or log skidders of any size, shall be allowed to be used. Dozers shall only be allowed to do seedbed preparation as required and as concurred in by the COTR. No equipment in excess of 30,000 lbs. or 9 ft. in width shall be allowed.
- 3) The lateral work limits shall be as shown on the drawings. The beginning and ending work limits are as shown on the "Site Location Maps". When debris removal is required at bridge and culvert locations, the work limits shall be the distance necessary to remove all floating and submerged accumulated debris. At bridges and culverts, both sides of the channel may be used as work sides if conditions warrant.
- 4) All woody debris within the work limits shall be removed. In landscaped residential areas, vegetative debris longer than 18 inches or having a diameter greater than 2 inches within the work limits shall be removed. All other areas vegetative debris longer than 18 inches and a diameter greater than 2 inches within the work limits shall be removed. This is to include, but is not limited to all debris (trees, root balls which have been displaced, etc.) that is a part of the debris within the work limits. Leaning trees, (those which are leaning over the channel and are identified for removal), shall be cut off at the ground line leaving the root mass in place. If any part of a downed or leaning tree is within the lateral work limits, the entire tree shall be removed. If the root mass of such tree is outside the work limits, the tree shall be cut off at the root mass and the root mass shall remain, with the exception of root masses in residential yards which shall be removed as per the following stipulations as concurred in by the COTR. The root mass of any tree, within the work limits, designated for removal, shall only be left in place if 50% or more of the root mass is still in direct contact with the soil. Root masses of trees, within the work limits, that are designated for removal and which are less than 50% in contact with the soil shall be removed, unless in the opinion of the COTR the removal of such root mass would cause a potentially erosive condition. Any hanging tree tops or limbs within the work limits shall be removed and disposed of. The contractor shall take care to not to damage any existing trees; however if any trees are damaged by the debris removal operations, they shall be removed and disposed of as concurred in by the COTR.
- 5) The contractor is responsible for any debris, which his operation may dislodge and cause to float downstream of the work area.
- 6) Prior to the contractor being issued a notice to proceed, the contractor shall submit to NRCS in writing the method of disposal which he/she intends to use. The proposed method must be approved by NRCS prior to the start of work. Any of the following methods of disposal may be used, if approved by NRCS:

- a) All debris removed from within the work limits may be disposed of by loading and hauling to any federal, state or locally approved public landfill or other debris disposal site as approved by the Contracting Officer. The contractor is responsible for payment of any tipping fees.
- b) All woody combustibles removed from within the work limits may be disposed of by piling and burning to a state of loose ash at a site within the work limits as concurred in by the COTR. If the contractor chooses to burn, all necessary local and state permits must be in place prior to the commencement of burning operations. The contractor shall prepare a burn plan that identifies the locations, and procedures for burning the woody debris.

Burning operations must be monitored at all times. **At no time** shall any ignited debris pile be left unattended. Winds at the time of burning must be away from any city, town or public highway. No natural or synthetic rubbers, heavy oils, hazardous substances, shingles or other roofing materials may be burned or used to start a fire. Such material shall be disposed of by loading and hauling to any federal, state or locally approved public landfill. The contractor is responsible for payment of any tipping fees. Woody combustible debris, which cannot be burned, shall be disposed of by loading and hauling to any federal, state or locally approved public landfill or debris disposal site. The contractor is responsible for payment of any tipping fees.

- c) All woody combustibles removed from within the work limits may be disposed of by chipping and either hauling off the chips or spreading the chips evenly in the adjacent wooded areas. Chips may be blown into the adjacent floodplain in non residential areas. At no time shall chips be more than 6 inches deep. Placing chips within the flow lines of any side channels will not be allowed. The chipping operation shall be such that will not allow the chips to re-enter the channel being worked.
- 7) All noncombustibles and material not acceptable for chipping removed from within the work limits shall be disposed of by loading and hauling to any federal, state or locally approved public landfill. The contractor is responsible for payment of any tipping fees unless specified otherwise in the contract.
- 8) **Any hazardous material** encountered, such as batteries, used motor oil, scrap tires, white goods, any item which could contain CFC's, etc., shall be loaded and hauled to an approved hazard waste disposal site.
- 9) The contractor shall, upon approval from the land owners, create access barriers at ingress and egress points and at locations and frequencies concurred in by the COTR, using some of the logs removed in the obstruction removal operation.
- 10) Payment will be as specified in Section 7 of this specification. Such payment will constitute full compensation for related subsidiary items, "Pollution Control" and "Seeding, Fertilization and Mulching", "Mobilization" and "Traffic Control"